

**ABSTRACT**

The present invention provides array systems that facilitate the simultaneous monitoring of many interactions between biological molecules. Biomolecule arrays according to the present invention provide a flexible and general tool and will allow biological researchers to probe cellular protein interactions with high throughput. In certain embodiments, the present invention provides methods and arrays for analyzing biochemical pathways comprising the steps of forming an array of immobilized biomolecules; exposing said array to biomolecules in solution; and detecting modification of the immobilized biomolecules, modification of the biomolecules in solution, and/ or binding of biomolecules in solution to immobilized biomolecules.